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NOTICE OF ALLOWANCE AND FEE(S) DUE

54414

7590

03/19/2010

MYERS BIGEL SIBLEY & SAJOVEC, P.A. P.O. BOX 37428 RALEIGH, NC 27627

EXAMINER

KURR, JASON RICHARD

ART UNIT PAPER NUMBER

2614

DATE MAILED: 03/19/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

10/522,857 09/26/2005 Thomas Lechner 9733-10 4895

TITLE OF INVENTION: SIGNAL STRENGTH IMFORMATION DEPENDENT CONTROL OF SMALL ELECTRODYNAMIC TRANSDUCERS IN AUDIO SYSTEMS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/21/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificate	correspondence including ed below or directed oth tions.	g the Patent, advance or erwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees wi pondence address;	ll be i and/or	mailed to the current (b) indicating a sepa	correspond rate "FEE	dence address as ADDRESS" for
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								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.	
10/522,857	09/26/2005	•	Thomas Lechner	•		9733-10		4895
AUDIO SYSTEMS			PENDENT CONTROL O					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	'. PAID ISSUE FEE TOTAL FEE(S) DU		D	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	0	6/21/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS	7				
KURR, JASO	KURR, JASON RICHARD 2614		381-102000					
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED O			(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attorlisted, no name will be THE PATENT (print or typ	rely, e firm (having as a gent) and the name rneys or agents. If n printed.	membe	er a 2 o to		
recordation as set forti (A) NAME OF ASSIC	h in 37 CFR 3.11. Comp GNEE	letion of this form is NO	data will appear on the pa T a substitute for filing an a (B) RESIDENCE: (CITY	assignment. and STATE OR CO	DUNT	RY)		_
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Cor	porati	on or other private gro	oup entity	Government
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	s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no long					
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This collection of inform an application. Confident submitting the completed his form and/or suggesti Box 1450. Alexandria, V	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this burirginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by th imated to take 12 m idual case. Any cor r, U.S. Patent and T D THIS ADDRESS.	e publ inutes nment radem SENI	ic which is to file (and to complete, including s on the amount of tital ark Office, U.S. Depo D TO: Commissioner	by the US g gathering ne you requirement of For Patents.	PTO to process) g, preparing, and juire to complete Commerce, P.O. , P.O. Box 1450.

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10/522,857	09/26/2005	Thomas Lechner	9733-10	4895		
54414 75	90 03/19/2010		EXAM	INER		
MYERS BIGEL	SIBLEY & SAJOVE	KURR, JASON RICHARD				
P.O. BOX 37428			ART UNIT	PAPER NUMBER		
RALEIGH, NC 27627		2614				
			DATE MAILED: 03/19/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 740 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 740 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/522,857	LECHNER, THOMAS				
Notice of Allowability	Examiner	Art Unit				
	JASON R. KURR	2614				
	JASON N. KOKK	2014				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commul GHTS . This application is s	this application. If not included inication will be mailed in due course. THIS				
1. X This communication is responsive to Applicant's amendment	ent dated December 16, 200	<u>9</u> .				
2. The allowed claim(s) is/are <u>1-27</u> .						
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).				
□ Certified copies of the priority documents have		n No				
3. ☐ Copies of the certified copies of the priority do	• • • • • • • • • • • • • • • • • • • •					
International Bureau (PCT Rule 17.2(a)).	odinomo navo bodii redeivet	an the national stage application from the				
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review	v (PTO-948) attached				
1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of In	formal Patent Application				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),				
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./	Mail Date Amendment/Comment				
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	Statement of Reasons for Allowance				
of Biological Material	9. 🔲 Other	<u>.</u>				

Allowable Subject Matter

Claims 1-27 are allowed. For the purposes of allowance, the original numbering of the claims has been changed.

The following is an examiner's statement of reasons for allowance:

The general concept of a control circuit or signal processing for controlling the frequency response of a transducer with respect to the level of a received audio signal was known in the art at the time of the invention, as evidenced by Walton et al (US 5285502). However, the Examiner has not found prior art that teaches or suggests the modification of Walton in order to provide a method that includes processing the audio signal wherein a lower frequency range is modified with a gain different from a higher frequency range, and a cutoff frequency separating the lower and higher ranges is shifted towards higher values for an increasing detected level and shifted towards lower values for a decreasing detected level of the input audio signal, such that the cutoff frequency is the same or lower than a resonant frequency of the transducer for low level signals, as defined in the independent claims 1, 14, 26 and 27. Other prior art has been cited herein regarding loudspeaker feedback systems and methods, however the other prior art of record also fails to teach or provide suggestion to arrive the combination of the elements and steps presented in the independent claims, again when said elements or steps are collectively considered in regards to each claim. For at least the reasons listed above, the dependent claims are also allowed in view of their respective dependencies upon the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Klippel (US 5577126) discloses an overload protection circuit for transducers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON R. KURR whose telephone number is (571)272-0552. The examiner can normally be reached on M-F 10:00am to 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 273-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/522,857 Page 4

Art Unit: 2614

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jason R Kurr/

Examiner, Art Unit 2614

/Vivian Chin/

Supervisory Patent Examiner, Art Unit 2614